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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	Feb 24	PCTGEN now available on STN
NEWS 4	Feb 24	TEMA now available on STN
NEWS 5	Feb 26	NTIS now allows simultaneous left and right truncation
NEWS 6	Feb 26	PCTFULL now contains images
NEWS 7	Mar 04	SDI PACKAGE for monthly delivery of multifile SDI results
NEWS 8	Mar 24	PATDPAFULL now available on STN
NEWS 9	Mar 24	Additional information for trade-named substances without structures available in REGISTRY
NEWS 10	Apr 11	Display formats in DGENE enhanced
NEWS 11	Apr 14	MEDLINE Reload
NEWS 12	Apr 17	Polymer searching in REGISTRY enhanced
NEWS 13	AUG 22	Indexing from 1927 to 1936 added to records in CA/CAPLUS
NEWS 14	Apr 21	New current-awareness alert (SDI) frequency in WPIDS/WPINDEX/WPIX
NEWS 15	Apr 28	RDISCLOSURE now available on STN
NEWS 16	May 05	Pharmacokinetic information and systematic chemical names added to PHAR
NEWS 17	May 15	MEDLINE file segment of TOXCENTER reloaded
NEWS 18	May 15	Supporter information for ENCOMPPAT and ENCOMPLIT updated
NEWS 19	May 19	Simultaneous left and right truncation added to WSCA
NEWS 20	May 19	RAPRA enhanced with new search field, simultaneous left and right truncation
NEWS 21	Jun 06	Simultaneous left and right truncation added to CBNB
NEWS 22	Jun 06	PASCAL enhanced with additional data
NEWS 23	Jun 20	2003 edition of the FSTA Thesaurus is now available
NEWS 24	Jun 25	HSDB has been reloaded
NEWS 25	Jul 16	Data from 1960-1976 added to RDISCLOSURE
NEWS 26	Jul 21	Identification of STN records implemented
NEWS 27	Jul 21	Polymer class term count added to REGISTRY
NEWS 28	Jul 22	INPADOC: Basic index (/BI) enhanced; Simultaneous Left and Right Truncation available
NEWS 29	AUG 05	New pricing for EUROPATFULL and PCTFULL effective August 1, 2003
NEWS 30	AUG 13	Field Availability (/FA) field enhanced in BEILSTEIN
NEWS 31	AUG 15	PATDPAFULL: one FREE connect hour, per account, in September 2003
NEWS 32	AUG 15	PCTGEN: one FREE connect hour, per account, in September 2003
NEWS 33	AUG 15	RDISCLOSURE: one FREE connect hour, per account, in September 2003
NEWS 34	AUG 15	TEMA: one FREE connect hour, per account, in September 2003
NEWS 35	AUG 18	Data available for download as a PDF in RDISCLOSURE
NEWS 36	AUG 18	Simultaneous left and right truncation added to PASCAL
NEWS 37	AUG 18	FROSTI and KOSMET enhanced with Simultaneous Left and Right Truncation

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 NEWS 38  AUG 18  Simultaneous left and right truncation added to ANABSTR

 NEWS EXPRESS  April 4 CURRENT WINDOWS VERSION IS V6.01a, CURRENT
               MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),
               AND CURRENT DISCOVER FILE IS DATED 01 APRIL 2003
 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
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 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

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FILE COVERS 1907 - 26 Aug 2003  VOL 139 ISS 9
FILE LAST UPDATED: 25 Aug 2003  (20030825/ED)

  This file contains CAS Registry Numbers for easy and accurate
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=> pronase and virus (w) isolation
          7654 PRONASE
            13 PRONASES
          7661 PRONASE
                 (PRONASE OR PRONASES)
        286631 VIRUS
         61896 VIRUSES
        296997 VIRUS
                 (VIRUS OR VIRUSES)
        219875 ISOLATION
           947 ISOLATIONS
        220482 ISOLATION
```

```
                (ISOLATION OR ISOLATIONS)
          1021 VIRUS (W) ISOLATION
L1           2 PRONASE AND VIRUS (W) ISOLATION

=> (streptomyces griseus trypsin)
         32009 STREPTOMYCES
          4221 GRISEUS
         64422 TRYPSIN
           473 TRYPSINS
         64464 TRYPSIN
                (TRYPSIN OR TRYPSINS)
L2          61 (STREPTOMYCES GRISEUS TRYPSIN)
                (STREPTOMYCES(W)GRISEUS(W)TRYPSIN)

=> virus (w) putification
        286631 VIRUS
         61896 VIRUSES
        296997 VIRUS
                (VIRUS OR VIRUSES)
             0 PUTIFICATION
L3           0 VIRUS (W) PUTIFICATION

=> Virus (w) purification
        286631 VIRUS
         61896 VIRUSES
        296997 VIRUS
                (VIRUS OR VIRUSES)
        289567 PURIFICATION
           874 PURIFICATIONS
        290151 PURIFICATION
                (PURIFICATION OR PURIFICATIONS)
        249592 PURIFN
           232 PURIFNS
        249695 PURIFN
                (PURIFN OR PURIFNS)
        419722 PURIFICATION
                (PURIFICATION OR PURIFN)
L4         915 VIRUS (W) PURIFICATION

=> L4 and L2
L5           0 L4 AND L2

=> virus (w) isolation
        286631 VIRUS
         61896 VIRUSES
        296997 VIRUS
                (VIRUS OR VIRUSES)
        219875 ISOLATION
           947 ISOLATIONS
        220482 ISOLATION
                (ISOLATION OR ISOLATIONS)
L6        1021 VIRUS (W) ISOLATION

=> L6 and L2
L7           0 L6 AND L2

=> pronase
          7654 PRONASE
            13 PRONASES
L8        7661 PRONASE
                (PRONASE OR PRONASES)

=> L6 and L8
L9           2 L6 AND L8
```

=> L8 and L4
L10 8 L8 AND L4

=> L10 and HAV
1026 HAV
19 HAVS
1033 HAV
(HAV OR HAVS)
L11 0 L10 AND HAV

=> DIS L10 1- IBIB ABS
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L10 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1997:270740 CAPLUS
DOCUMENT NUMBER: 126:248758
TITLE: Purification and crystallization of the attachment proteins of enveloped animal viruses using a virosome intermediate
INVENTOR(S): Portner, Allen; Takimoto, Toru
PATENT ASSIGNEE(S): St. Jude Children's Research Hospital, USA; Portner, Allen; Takimoto, Toru
SOURCE: PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9709345	A1	19970313	WO 1996-US14187	19960906
W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CU, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI				
AU 9671545	A1	19970327	AU 1996-71545	19960906

PRIORITY APPLN. INFO.: US 1995-3447P P 19950908
WO 1996-US14187 W 19960906

AB A method of purifying the attachment proteins of enveloped viruses in a biol. active form suitable for crystn. and X-ray crystallog. anal. is described. The proteins are incorporated into virosomes by solubilization of the virus with detergent followed by sedimentation of the nucleocapsid and matrix proteins. Th supernatant contg. the solubilized attachment proteins and envelope lipids is then treated to remove the detergent with reconstitution of virosomes. The sol. domains of the protein can then be removed by proteolytic cleavage and the residual virosomes removed by sedimentation. The hemagglutinin-neuraminidase (HN) of the Kansas strain of Newcastle's disease virus was purified from allantoic fluid by resuspending the virus at 20 mg/mL in PBS contg. Triton X-100 2 vol.% and incubated at room temp. for 1 h. Nucleocapsid and matrix proteins were pelleted by centrifugation and detergent removed from the supernatant using Bio-Beads. The extracellular domain of the HN was solubilized by treatment with **pronase** to give a single band on gel electrophoresis.

L10 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1991:467248 CAPLUS

DOCUMENT NUMBER: 115:67248
TITLE: A new method for the purification of the influenza A virus neuraminidase
AUTHOR(S): McKimm-Breschkin, J. L.; Caldwell, J. B.; Guthrie, R. E.; Kortt, A. A.
CORPORATE SOURCE: Div. Biomol. Eng., CSIRO, Parkville, 3052, Australia
SOURCE: Journal of Virological Methods (1991), 32(1), 121-4
CODEN: JVMEDH; ISSN: 0166-0934
DOCUMENT TYPE: Journal
LANGUAGE: English

AB A rapid new method for the purifn. of neuraminidase (NA) heads from influenza A virus is described. Virus was pelleted directly from allantoic fluid and was digested with **Pronase**. The cores were removed by centrifugation, redigested and the released NA heads were pooled and concd. The NA was sepd. from all contaminating proteins in a single step on a Superose 12 column. The purified material was suitable for both crystallog. and for the prodn. of monospecific antisera.

L10 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1984:402572 CAPLUS
DOCUMENT NUMBER: 101:2572
TITLE: Partial characterization of a transformation-specific glycopeptide in SSV-NP cells
AUTHOR(S): Thiel, Heinz Juergen; Hafenrichter, Rudolf; Greger, Bernd
CORPORATE SOURCE: Fed. Res. Cent. Virus Dis. Anim., Tuebingen, D-7400, Fed. Rep. Ger.
SOURCE: Virology (1984), 134(1), 138-47
CODEN: VIRLAX; ISSN: 0042-6822
DOCUMENT TYPE: Journal
LANGUAGE: English

AB An autologous antiserum against simian sarcoma virus-infected nonproducer cells (SSV-NP cells) recognized a SSV transformation-specific glycopeptide (SSV-TrSgp) (Thiel, H. J., et al., 1981). Gel filtration of this component on a Sephacryl S-200 column indicated an apparent mol. wt. at .apprx.200,000. This antigen represented a proteoglycan-like mol., as evidenced by the size of glycopeptides after **Pronase** treatment and by incubation with chondroitinases. The antigenicity of the SSV-TrSgp was completely destroyed after exposure to different proteases. On the other hand, incubation with neuraminidase or chondroitinases degraded the mol. to some extent, but did not affect its antigenicity as measured by immunopptn. Trypsin and EDTA treatment of intact pulse-labeled cells, as well as surface iodination, indicated that the SSV-TrSgp represents a cell membrane-assocd. mol.

L10 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1980:123603 CAPLUS
DOCUMENT NUMBER: 92:123603
TITLE: Isolation and preliminary characterization of herpes Channel Catfish virus DNA
AUTHOR(S): Robin, Jean; Rodrigue, Alice
CORPORATE SOURCE: Fac. Sci., Univ. Sherbrooke, Sherbrooke, QC, J1K 2R1, Can.
SOURCE: Canadian Journal of Microbiology (1980), 26(2), 130-4
CODEN: CJMIAZ; ISSN: 0008-4166
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The DNA of Channel Catfish virus (CCV) was selectively extd. from infected cells with a 5% soln. of Na deoxycholate, deproteinized with Na sarcosinate and **Pronase**, and purified by PhOH extn. followed by equil. d. gradient centrifugation in a CsCl soln. CCV DNA displayed a buoyant d. of 1.715 g/cm3 in such a soln., as would be expected from a duplex DNA contg. 56.1% guanine plus cytosine. As estd. from both its sedimentation coeff. and length in the electron microscope, CCV DNA is a

linear duplex mol. of .apprx.85 .times. 106 daltons.

L10 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1978:147999 CAPLUS
DOCUMENT NUMBER: 88:147999
TITLE: Isolation and study of the electrophoretic mobility of pig influenza virus neuraminidase
AUTHOR(S): Tolmacheva, V. P.; Daulbaeva, K. D.; Isaeva, E. S.; Chuvakova, Z. K.; Amantaev, S. Zh.
CORPORATE SOURCE: USSR
SOURCE: Izvestiya Akademii Nauk Kazakhskoi SSR, Seriya Biologicheskaya (1978), 16(1), 51-5
CODEN: IKABAR; ISSN: 0002-3183
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB Neuraminidase from pig influenza virus was isolated by treatment of virus with ether, Tween 20, and **pronase** followed by centrifugation at 45,000 rpm for 2 h. The products of virus disintegration were pptd. by treatment with formalinized erythrocytes and neuraminidase was found in the supernatant liq. The decrease in yield after erythrocyte treatment indicates that a significant portion of the enzyme is found in complexes with hemagglutinins, which are easily adsorbed on erythrocytes. Polyacrylamide gel electrophoresis showed 2 components with neuraminidase activity; the 1st component decreased significantly after treatment with erythrocytes. The mol. wts. were 250,000 and 200,000 daltons, characteristic for a tetrameric structure of neuraminidase.

L10 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1977:417649 CAPLUS
DOCUMENT NUMBER: 87:17649
TITLE: Partial purification and characterization of the potato virus Y helper component
AUTHOR(S): Govier, D. A.; Kassanis, B.; Pirone, T. P.
CORPORATE SOURCE: Rothamsted Exp. Stn., Harpenden/Herts., UK
SOURCE: Virology (1977), 78(1), 306-14
CODEN: VIRLAX; ISSN: 0042-6822
DOCUMENT TYPE: Journal
LANGUAGE: English
AB Mg2+ stabilized potato virus Y helper component during partial purifn. In solns. contg. 0.02M Mg2+, the helper component retained most of its activity for 2 days at 4.degree. and for .gtoreq.8 months at -15.degree.. Activity was destroyed on incubation with **Pronase** or trypsin or by heating for 5 min at 55.degree., but not by incubation with RNase. Incubation with its own antiserum strongly inhibited helper component activity, but antisera to potato virus Y coat protein or inclusion protein had no more effect than a control serum. Filtration through a Sephadex G-200 column resulted in a broad peak of activity which produced many protein-staining bands when electrophoresed on polyacrylamide gel. Gel filtration and ultrafiltration expts. both indicated a mol. wt. of 100,000-200,000. Some helper component activity was retained by aphids allowed to probe into a sucrose soln. for 20 min, showing that the helper component is more firmly bound to the aphid than is the tobacco mosaic virus-poly-L-ornithine complex.

L10 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1977:402099 CAPLUS
DOCUMENT NUMBER: 87:2099
TITLE: Highly infectious RNA isolated from cowpea chlorotic mottle virus with low specific infectivity
AUTHOR(S): Wyatt, S. D.; Kuhn, C. W.
CORPORATE SOURCE: Dep. Plant Pathol. Plant Genet., Univ. Georgia, Athens, GA, USA
SOURCE: Journal of General Virology (1977), 35, Pt. 1, 175-80
CODEN: JGVIAY; ISSN: 0022-1317

DOCUMENT TYPE: Journal
LANGUAGE: English
AB Recovery and specific infectivity of infectious RNA from cowpea chlorotic mottle virus of low specific infectivity (14-21 day infections) were greatly improved by using antioxidants during **virus purifn.** and RNA extn., and by disrupting coat protein with **pronase** before PhOH-Na dodecyl sulfate extn. Total infectivity of RNA from virus of low infectivity was increased >30-fold. RNA profiles obtained using polyacrylamide gels were then similar for virus with high (4-7 day infections) or low specific infectivity. Low specific invectivity, therefore, seems to be caused by alteration of the coat protein or of the protein-RNA interaction in intact virus particles.

L10 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1974:105218 CAPLUS
DOCUMENT NUMBER: 80:105218
TITLE: Preparative isolation of neuraminidase from influenza A viruses (Singapore) 1/57, (Hong Kong) 1/68, and (Leningrad) 99/71
AUTHOR(S): Simanovskaya, V. K.; Vaitkiene, V.; Golubev, D. B.
CORPORATE SOURCE: Vses. Nauchno-Issled. Inst. Grippa, Leningrad, USSR
SOURCE: Voprosy Virusologii (1973), (5), 555-60
CODEN: VVIRAT; ISSN: 0507-4088
DOCUMENT TYPE: Journal
LANGUAGE: Russian
AB The 3 title viruses cultured in the allantoic fluid of chick embryos were used as sources for the prepn. of neuraminidase (I). The extn. method comprised disintegration of the virus with BuOH, ether, and **Pronase**, pptn. of the S antigen, and gel filtration on Sephadex G-200. The purified I was homogeneous upon polyacrylamide gel electrophoresis. The Singapore strain gave a mugh higher yield of I, with a much higher sp. activity than either of the other 2 strains. In the process of purification, I acquired a gradually increasing specificity toward the low-mol.-wt. compd. sialyllactose, as opposed to the high-mol.-wt. ovomucin.

=> DIS L9 1- IBIB ABS
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L9 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN
ACCESSION NUMBER: 1985:75385 CAPLUS
DOCUMENT NUMBER: 102:75385
TITLE: **Pronase** treatment of type A/H2N2/ and type B influenza **viruses**. **Isolation** of pure neuraminidase heads
AUTHOR(S): Kavaklova, L.; Praskov, D.; Vulkova, B.; Petrunova, S.; Nikolova, Z.; Kotseva, R.
CORPORATE SOURCE: Med. Akad., Sofia, Bulg.
SOURCE: Epidemiologiya, Mikrobiologiya i Infektsiozni Bolesti (1984), 21(4), 23-31
CODEN: EMIBA3; ISSN: 0425-1482
DOCUMENT TYPE: Journal
LANGUAGE: Bulgarian
AB The direct effect of **pronase**, a protease, was studied on 4 type A and 1 type B influenza virus stains. Pure and active neuramindase with a very good yield was isolated from strain A/Singapore/1/57/H2N2/. The other 3 type A/H3N2/ strains appeared to have thermolabile and **pronase**-sensitive neuraminidase and a hemagglutinin relatively resistant to **pronase** degrdn. The neuraminidase prepns. isolated had low enzyme activity and were hemagglutinin-polluted. Pure neuraminidase with reduced enzyme activity was isolated from strain

B/Singapore 222/79. Monospecific antisera against the pure neuraminidase heads, isolated from A/Singapore/1/57 and B/Singapore 222/79, were obtained. The antisera were used in the double agar diffusion test, aimed at comparing the antigenic identity of type N2 and type B neuraminidases accordingly.

L9 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2003 ACS on STN

ACCESSION NUMBER: 1982:612236 CAPLUS
DOCUMENT NUMBER: 97:212236
TITLE: Isolation of native alpha-virus RNA and several of its physicochemical indexes
AUTHOR(S): Uryvaev, L. V.; Klimenko, S. M.; Samokhvalov, E. I.; Iferov, V. P.
CORPORATE SOURCE: Inst. Virusol. im. Ivanovskogo, Moscow, USSR
SOURCE: Deposited Doc. (1981), VINITI 4502-81, 18 pp. Avail.: VINITI
DOCUMENT TYPE: Report
LANGUAGE: Russian

AB Genomic RNA was isolated from Venezuelan equine encephalomyelitis virus, propagated in chick embryo fibroblasts, by extn. with phenol, treatment with detergent (SDS), or pronase treatment. The yield of RNA was 80-95%. Anal. of RNA in sucrose d. gradient and gel electrophoresis revealed the presence of 3 RNA species with sedimentation coeffs. of 42 S, 28 S, and 18 S. The viral RNA had a mol. wt. of 4.0-4.1 megadaltons and was composed of 11,500-12,500 nucleotides. Electron micrographs of the viral genome are given.